

1648

#11 1/2

RAW SEQUENCE LISTING

DATE: 05/15/2001

PATENT APPLICATION: US/09/458,813

TIME: 11:09:23

Input Set : A:\176343-1.app

Output Set: N:\CRF3\05152001\I458813.raw

ENTERED

3 <110> APPLICANT: Murphy, Brian R.
 4 Collins, Peter L.
 5 Durbin, Anna P.
 6 Skiadopoulos, Mario H.
 7 Tao, Tao
 9 <120> TITLE OF INVENTION: USE OF RECOMBINANT LIVE-ATTENUATED PARAINFLUENZA VIRUS
 10 (PIV) AS A VECTOR TO PROTECT AGAINST DISEASE CAUSED BY
 11 PIV AND RESPIRATORY SYNCYTIAL VIRUS (RSV)
 13 <130> FILE REFERENCE: 17634-000330
 15 <140> CURRENT APPLICATION NUMBER: 09/458,813
 16 <141> CURRENT FILING DATE: 1999-12-10
 18 <150> PRIOR APPLICATION NUMBER: 09/083,793
 19 <151> PRIOR FILING DATE: 1998-05-22
 21 <150> PRIOR APPLICATION NUMBER: 60/047,575
 22 <151> PRIOR FILING DATE: 1997-05-23
 24 <150> PRIOR APPLICATION NUMBER: 60/059,385
 25 <151> PRIOR FILING DATE: 1997-09-19
 27 <160> NUMBER OF SEQ ID NOS: 30
 29 <170> SOFTWARE: PatentIn Ver. 2.1
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 42
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
 38 insert to conform inserted sequence to rule of
 39 six.
 41 <400> SEQUENCE: 1
 42 cttaagaata tacaataag aaaaacttag gattaaagag cg 42
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 47 <212> TYPE: DNA
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 50 <220> FEATURE:
 51 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
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 53 six.
 55 <400> SEQUENCE: 2
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 59 <210> SEQ ID NO: 3
 60 <211> LENGTH: 101
 61 <212> TYPE: DNA
 62 <213> ORGANISM: Artificial Sequence
 64 <220> FEATURE:
 65 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
 66 insert to conform inserted sequence to rule of
 67 six.

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69 <400> SEQUENCE: 3
70 aggcctaaaaa gggaaatata aaaaacttag gagtaaagtt acgcaatcca actctactca 60
71 tataattgag gaaggaccca atagacaaat ccaaattcga g 101
74 <210> SEQ ID NO: 4
75 <211> LENGTH: 79
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
81 insert to conform inserted sequence to rule of
82 six.
84 <400> SEQUENCE: 4
85 tcataattaa ccataatatg catcaatcta tctataatac aagtatatga taagtaatca 60
86 gcaatcagac aataggcct 79
89 <210> SEQ ID NO: 5
90 <211> LENGTH: 63
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
96 insert to conform inserted sequence to rule of
97 six.
99 <400> SEQUENCE: 5
100 aggaaaaggg aaatataaaa acttaggagt aaagttacgc gtgttaactt cgaagagctc 60
101 cct 63
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 38
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
111 insert to conform inserted sequence to rule of
112 six.
114 <400> SEQUENCE: 6
115 aggaaaaggg aacgcgtgtt aacttcgaag agctccct 38
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 6
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
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128 <400> SEQUENCE: 7
129 ctaaatt 6
132 <210> SEQ ID NO: 8
133 <211> LENGTH: 6
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence

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137 <220> FEATURE:
138 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
139     insert to conform inserted sequence to rule of
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143 cttaag                                     6
146 <210> SEQ ID NO: 9
147 <211> LENGTH: 6
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
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154     six.
156 <400> SEQUENCE: 9
157 tcaatc                                     6
160 <210> SEQ ID NO: 10
161 <211> LENGTH: 28
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
167     insert to conform inserted sequence to rule of
168     six.
170 <400> SEQUENCE: 10
171 acaacgagac cggataaatg ccttctac           28
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 67
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
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182     six.
184 <400> SEQUENCE: 11
185 attattgctt aaggtttggt cgggtgcggt tctttgttgg atcctatctg cgattgggttc 60
186 catcttc                                     67
189 <210> SEQ ID NO: 12
190 <211> LENGTH: 6
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
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197     six.
199 <400> SEQUENCE: 12
200 agacaa                                     6
203 <210> SEQ ID NO: 13
204 <211> LENGTH: 6

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205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
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211     six.
213 <400> SEQUENCE: 13
214 aggcct 6
217 <210> SEQ ID NO: 14
218 <211> LENGTH: 55
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
224     insert to conform inserted sequence to rule of
225     six.
227 <400> SEQUENCE: 14
228 gacaataggc ctaaaaggga aatataaaaa acttaggagt aaagttacgc aatcc 55
231 <210> SEQ ID NO: 15
232 <211> LENGTH: 68
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
238     insert to conform inserted sequence to rule of
239     six.
241 <400> SEQUENCE: 15
242 gtagaacgcg tttatccggt ctcgttgtgg tgacatctcg aatttggatt tgtctattgg 60
243 gtccttcc 68
246 <210> SEQ ID NO: 16
247 <211> LENGTH: 68
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
253     insert to conform inserted sequence to rule of
254     six.
256 <400> SEQUENCE: 16
257 gtagaacgcg tttatccggt ctcgttgtgg tgacatctcg aatttggatt tgtctattgg 60
258 gtccttcc 68
261 <210> SEQ ID NO: 17
262 <211> LENGTH: 28
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
268     insert to conform inserted sequence to rule of
269     six.
271 <400> SEQUENCE: 17

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272 ccatgtaatt gaatccccca aactagc                28
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276 <211> LENGTH: 28
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
282     insert to conform inserted sequence to rule of
283     six.
285 <400> SEQUENCE: 18
286 cggataaacg cggtctacaa agataacc                28
289 <210> SEQ ID NO: 19
290 <211> LENGTH: 28
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
296     insert to conform inserted sequence to rule of
297     six.
299 <400> SEQUENCE: 19
300 cggataaacg cggtctacaa agataacc                28
303 <210> SEQ ID NO: 20
304 <211> LENGTH: 23
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
310     insert to conform inserted sequence to rule of
311     six.
313 <400> SEQUENCE: 20
314 gggccatgga agattacagc aat                    23
317 <210> SEQ ID NO: 21
318 <211> LENGTH: 25
319 <212> TYPE: DNA
320 <213> ORGANISM: Artificial Sequence
322 <220> FEATURE:
323 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
324     insert to conform inserted sequence to rule of
325     six.
327 <400> SEQUENCE: 21
328 caataagctt aaagcattag ttccc                25
331 <210> SEQ ID NO: 22
332 <211> LENGTH: 31
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
338     insert to conform inserted sequence to rule of
339     six.

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/458,813

DATE: 05/15/2001

TIME: 11:09:24

Input Set : A:\176343-1.app

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